

**ABSTRACT OF THE DISCLOSURE**

Disclosed is a mold for forming molded products including a guide mechanism for guiding at least one movable mold part into and out of the closed mold forming position with another mold part. In a preferred embodiment, the guide mechanism includes a mount for guiding the movable part of a mold into and out of the mold forming position with extreme precision. The guide mechanism in a preferred embodiment can be constructed of a structure fixed to a fixed mold part and a second structure sandwiching the fixed structure and movable in conjunction with the movable mold part. Bearings separate the fixed structure from the movable structure and permit movement of the mold mount into and out of the molding forming position. These bearings are preloaded by the compression of the fixed structure by two portions of the movable structure interconnected by a bolt and a preload spring. In a preferred embodiment, a cam operable with movement of a mold half and a return spring move the movable mold portion into and out of the mold forming position, respectively.